

Recovery Plan Action Status

Plan Name: Holy Ghost Ipomopsis (*Ipomopsis sancti-spiritus*) Recovery Plan

Plan Status: Final

Plan Date: 26-Sep-02

Lead Agency: USFWS

Lead Office: New Mexico Ecological Services Field Office

(505)

346-2525)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Holy Ghost ipomopsis (<i>Ipomopsis sancti-spiritus</i>)	1	111	Develop home owner cooperation	Partially Complete	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region	Management: Land Use, Management: Planning	Contract	Part of mgt. planning
Holy Ghost ipomopsis (<i>Ipomopsis sancti-spiritus</i>)	1	112	Develop road maintenance criteria	Not Started			National Marine Fisheries Service Southwest Region	Work type not yet selected	Labor type not yet selected	Part of mgt. planning
Holy Ghost ipomopsis (<i>Ipomopsis sancti-spiritus</i>)	1	113	Develop and implement a fire management plan	Complete	FY 2000 - FY 2004	FY 2000 - FY 2004	National Marine Fisheries Service Southwest Region	Other: Administration	Contract	Part of mgt. planning
Holy Ghost ipomopsis (<i>Ipomopsis sancti-spiritus</i>)	2	114	Consider Botanical Area designation for Holy Ghost Canyon	Not Started			National Marine Fisheries Service Southwest Region	Work type not yet selected	Labor type not yet selected	Part of mgt. planning
Holy Ghost ipomopsis (<i>Ipomopsis sancti-spiritus</i>)	2	12	Revise management plans as needed	Ongoing Current	FY 2000 - FY 2004		National Marine Fisheries Service Southwest Region	Other: Administration	Species Expert	Part of mgt. planning
Holy Ghost ipomopsis (<i>Ipomopsis sancti-spiritus</i>)	1	13	Monitor the Holy Ghost Canyon population	Ongoing Current	Prior to FY 1995		National Marine Fisheries Service Southwest Region	Research: Habitat Status, Research: Other Information, Research: Population Surveys, Research: Reintroduction	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	14	Ensure compliance with applicable laws and regulations	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, U.S. Fish and Wildlife Service, Law Enforcement Division, National Marine Fisheries Service Southwest Region, State of New Mexico	Other: Law Enforcement	Internal Field Assistance, Internal Technical Assistance	
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	211	Do seeding trials to determine ecological amplitude of Holy Ghost ipomopsis	Partially Complete	FY 2005		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Management: Habitat Maintenance and Manipulation, Management: Propagation, Management: Reintroduction	Contract	Part of ecological studies. Do with Task 5.
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	2121	Study successional trend of road cuts	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	Part of ecological studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	2122	Study plant response to surface disturbance	Planned	FY 2009	FY 2010	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Management: Habitat Maintenance and Manipulation	Internal Field Assistance, Internal Technical Assistance, Species Expert	Part of ecological studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	2123	Study plant response to fire	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	Part of ecological studies

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	2124	Study response to livestock and wildlife grazing	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	Part of ecological studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	2125	Study interactions with other plants	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	Part of ecological studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	221	Identify pollinators	Complete	FY 2000 - FY 2004	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service	Research: Propagation	Contract	Part of reproductive biology studies, some work has been done.
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	222	Compare seed viability between self pollinated and out crossed pollination	Complete	FY 2000 - FY 2004	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service	Research: Propagation	Contract	Part of reproductive biology studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	223	Determine seed production	Complete	FY 2000 - FY 2004	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region	Research: Propagation	Contract	Part of reproductive biology studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	224	Determine length of seed viability	Complete	FY 2007	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service	Research: General	Contract	Part of reproductive biology studies
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	3	Maintain plants in cultivation and establish a seed bank	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, Center for Plant Conservation	Management: Propagation	Contract	

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	41	Search for new populations	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Research: Population Surveys	Contract	
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	42	Identify potential reintroduction sites	Complete	FY 2005	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Research: Habitat Requirements, Research: Population Surveys	Contract	Do with Task 41
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	51	Evaluate the need for non-essential experimental designations	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region	Work type not yet selected	Labor type not yet selected	Part of reintroduction program
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	52	Collect seeds for a seed production plantation	Complete	FY 2005	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Management: Propagation, Research: Propagation	Contract	Part of reintroduction program
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	53	Establish a seed production plantation	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Management: Propagation	Contract	Part of reintroduction program

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	54	Develop a seeding protocol	Ongoing Current	FY 2000 - FY 2004		U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Management: Propagation	Contract	Part of reintroduction program
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	1	57	Plant alternate sites, if needed	Complete	FY 2005	FY 2006	U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Management: Habitat Maintenance and Manipulation, Management: Propagation, Management: Reintroduction	Contract	Part of reintroduction program. Begin in year 7.
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	7	Use the results of monitoring and research studies to determine if populations can sustain themselves and to establish criteria for delisting	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	2	71	Evaluate the cost and benefit of conducting a population viability analysis. Conduct viability workshop if appropriate	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	May be most appropriate just prior to downlisting
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	3	72	Research and summarize all available information pertinent to establishing delisting criteria. Establish criteria, design and implement plan for full recovery and delisting	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service, National Marine Fisheries Service Southwest Region, State of New Mexico	Work type not yet selected	Labor type not yet selected	Downlisting goals are met
Holy Ghost ipomopsis (Ipomopsis sancti-spiritus)	3	8	Develop a post-recovery monitoring plan year	Not Started			U.S. Fish and Wildlife Service, Ecological Services Division, U.S. Fish and Wildlife Service	Work type not yet selected	Labor type not yet selected	Monitor for 5 years after delisting